

# PATENT ABSTRACTS OF JAPAN

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## (54) CORROSION-RESISTANT COATING

(57)Abstract:

PURPOSE: To obtain the titled coating virtually free from pollution, capable of suppressing corrosion cracking, hydrogen brittleness, pittings, coating film blisters, etc., for use in metallic materials, by incorporating a film-forming resin with a phosphoric acid ion source and vanadic acid ion source.

CONSTITUTION: A mixture made by incorporating (A) a film-forming resin with 0.1W50pts.wt., based on 100pts.wt. of the whole solid content of the final coating, of (B) a phosphorus compound (e.g., magnesium phosphate) and (C) a vanadium compound (e.g., pentavalent vanadium compound) in the molar ratio  $P_2O_5/V_2O_5=0.3W100$  and, if needed, (D) a network modifying ion source and/or glassy substance is calcined followed by grinding, thus obtaining the objective coating having both oxidizer and deposition functions under corrosive conditions due to water and oxygen to give rustproof performance.